NABORS
COMPLETION & PRODUCTION SERVICES CO.

SONIC LOG

Company	LOTUS OPERATING COMPANY, LLC.
Well	#5 ACHENBACH
Field	STRANATHAN
County	BARBER
State	KANSAS

Company LOTUS OPERATING COMPANY, LLC.
Well #5 ACHENBACH
Field STRANATHAN
County BARBER State KANSAS
Location: API # : 15-007-24258-0000
1485' FNL & 660' FWL
SEC 1 TWP 35S RGE 13W

Permanent Datum GROUND LEVEL Elevation 1455
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
DIL/MEL/FF

Elevation
K.B. 1468
D.F. 1466
G.L. 1455

Date			
	12/11/14		
Run Number	TWO		
Depth Driller	5670		
Depth Logger	5666		
Bottom Logged Interval	5658		
Top Log Interval	3800		
Casing Driller	10 3/4"@300'		
Casing Logger	299		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.6/48		
pH / Fluid Loss	11.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@85F		
Rmf @ Meas. Temp	.450@85F		
Rmc @ Meas. Temp	.720@85F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.389@131F		
Time Circulation Stopped	5.5 HOURS		
Time Logger on Bottom	7:00 A.M.		
Maximum Recorded Temperature	131F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TIM HELLMAN		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
HARDTNER, KS., 2 1/2W. ON BLKTOP TO "GYP HILL RD.", 1N., E. INTO

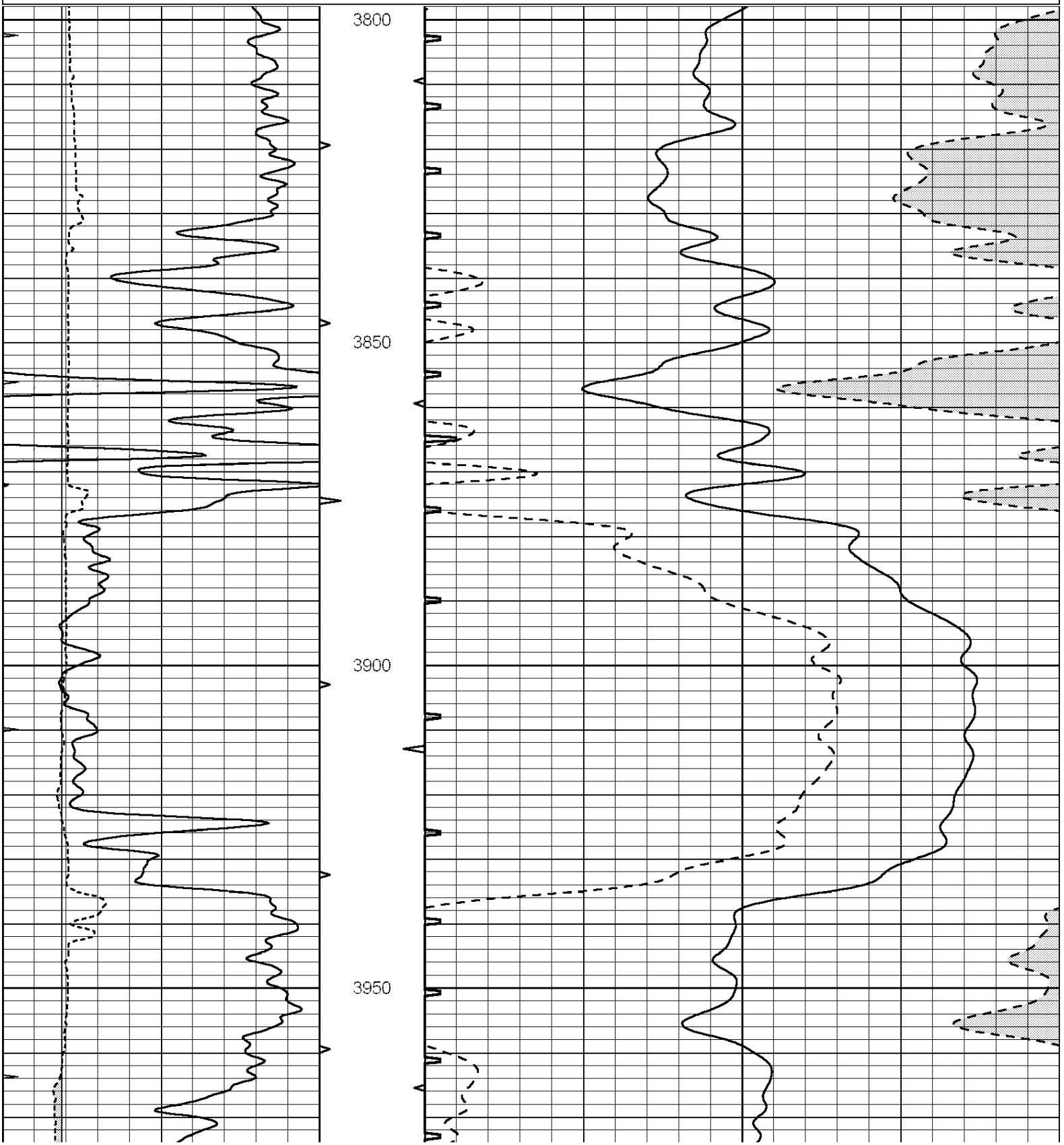
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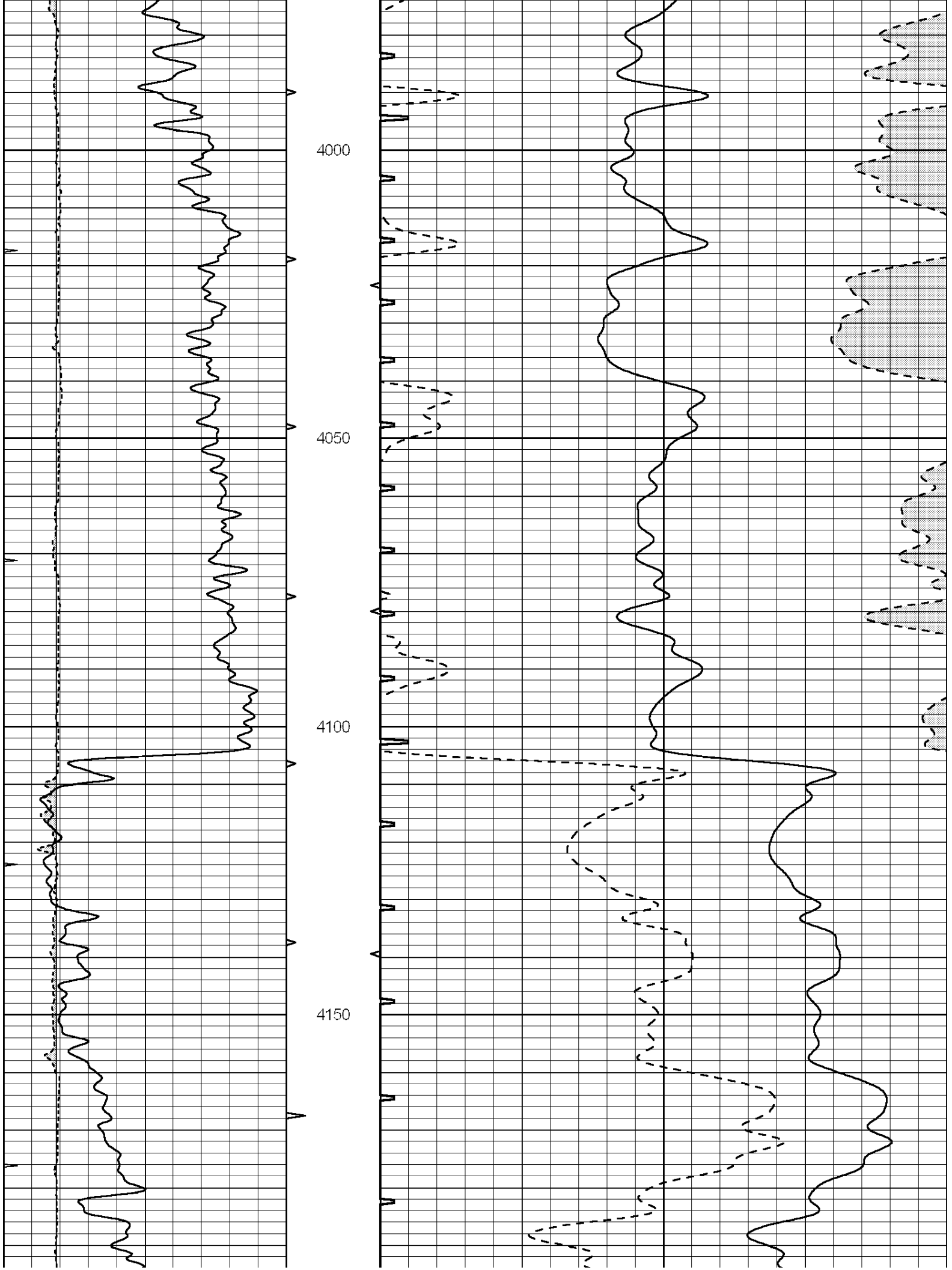
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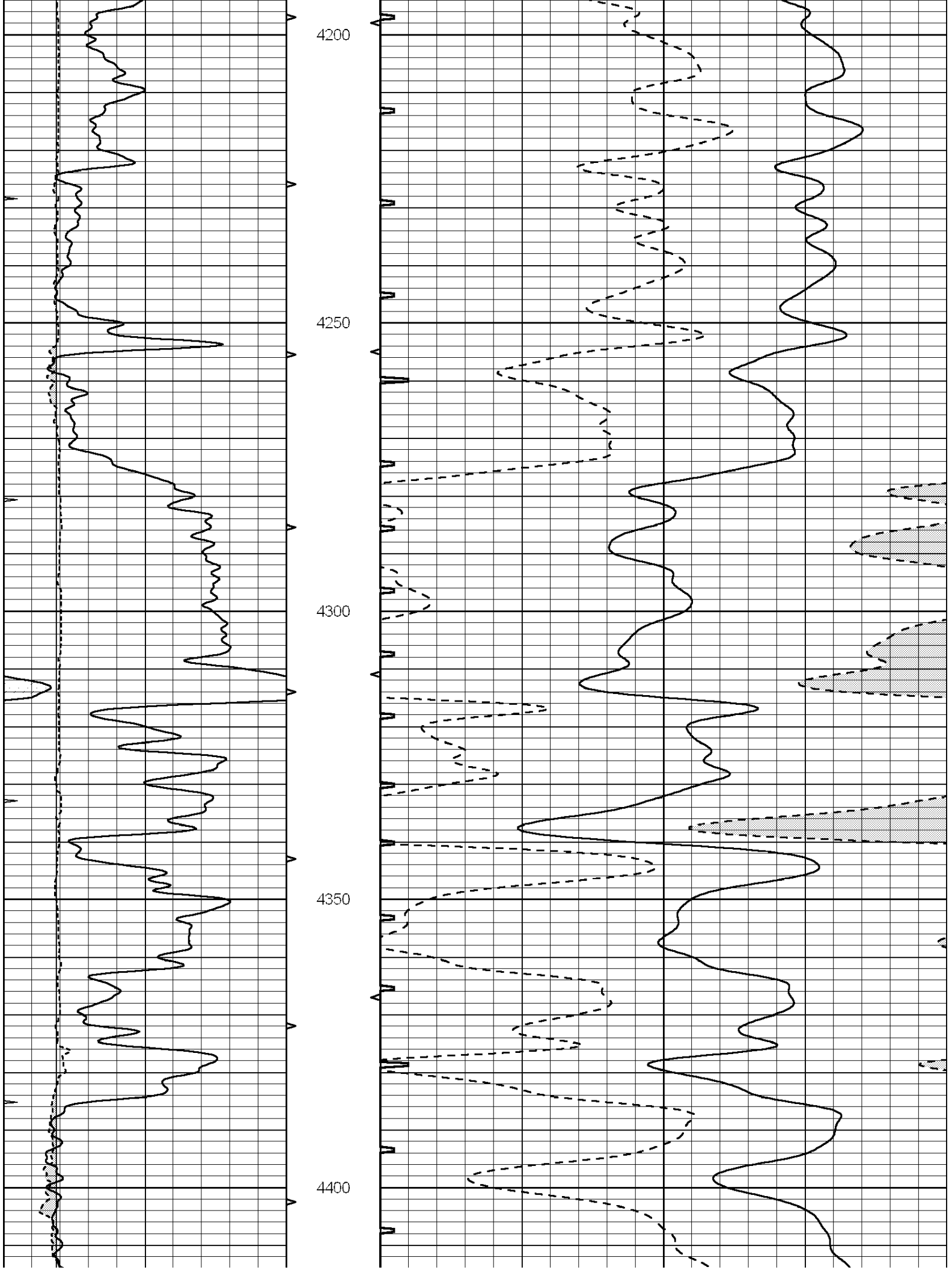
SERVICES CO.

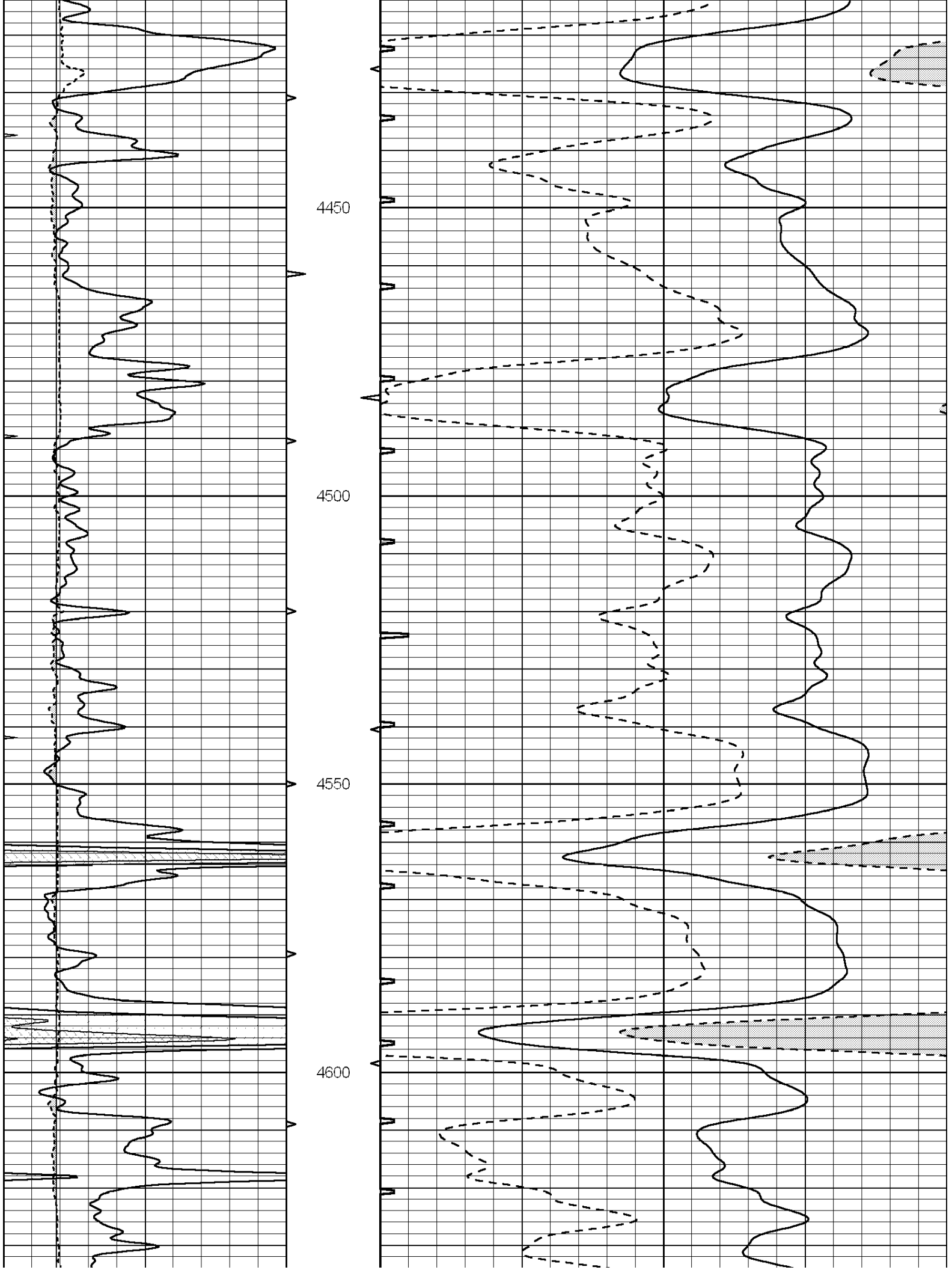
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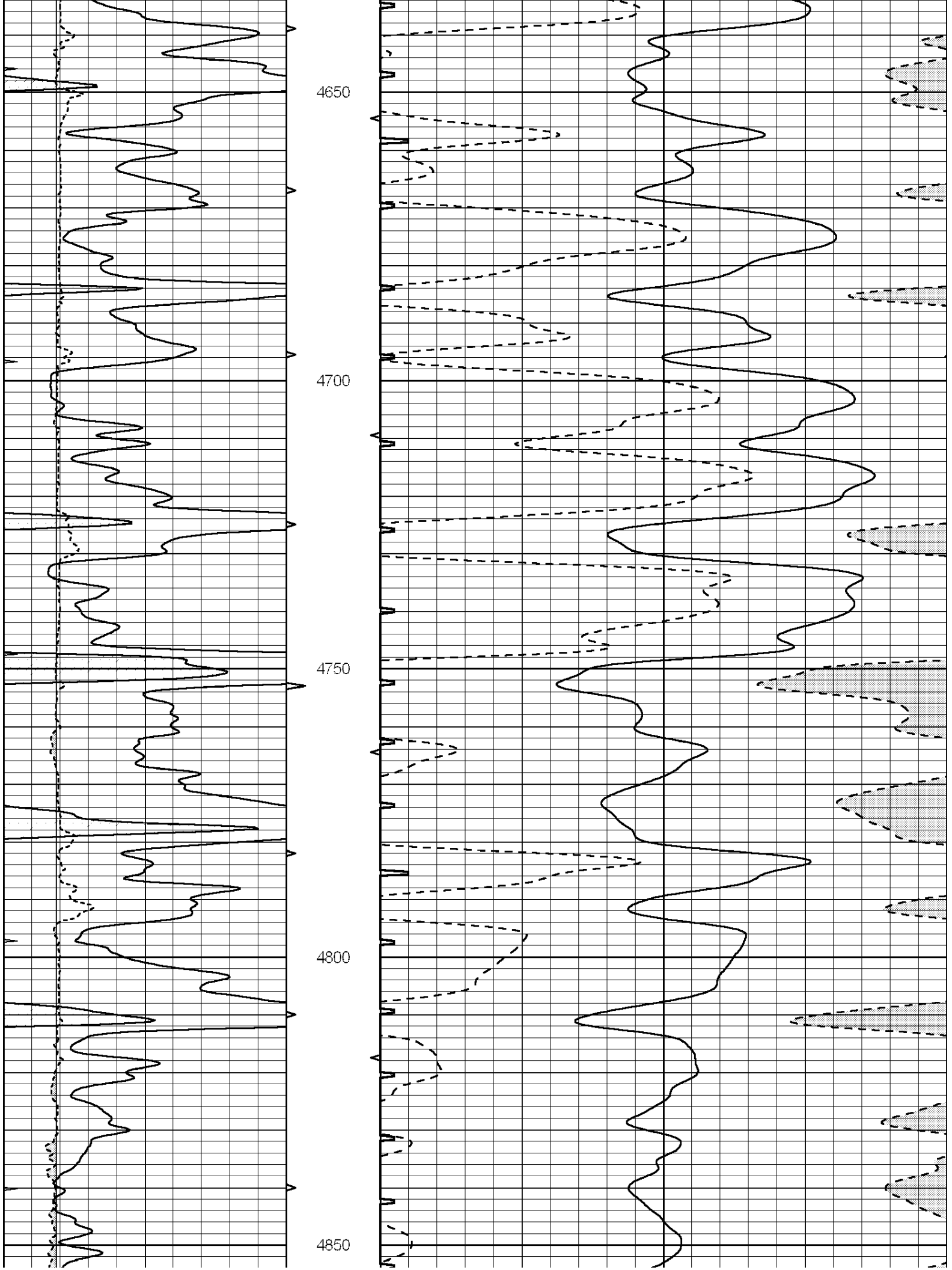
0 GAMMA RAY (GAPI) 150	ABHV	140 DELTA TIME (usec/ft) 40
6 CALIPER (in) 16	10 (ft3) 0	30 SONIC POROSITY (pu) -10
0 MINMK 20	TBHV	0 ITT (msec) 20
	0 (ft3) 10	

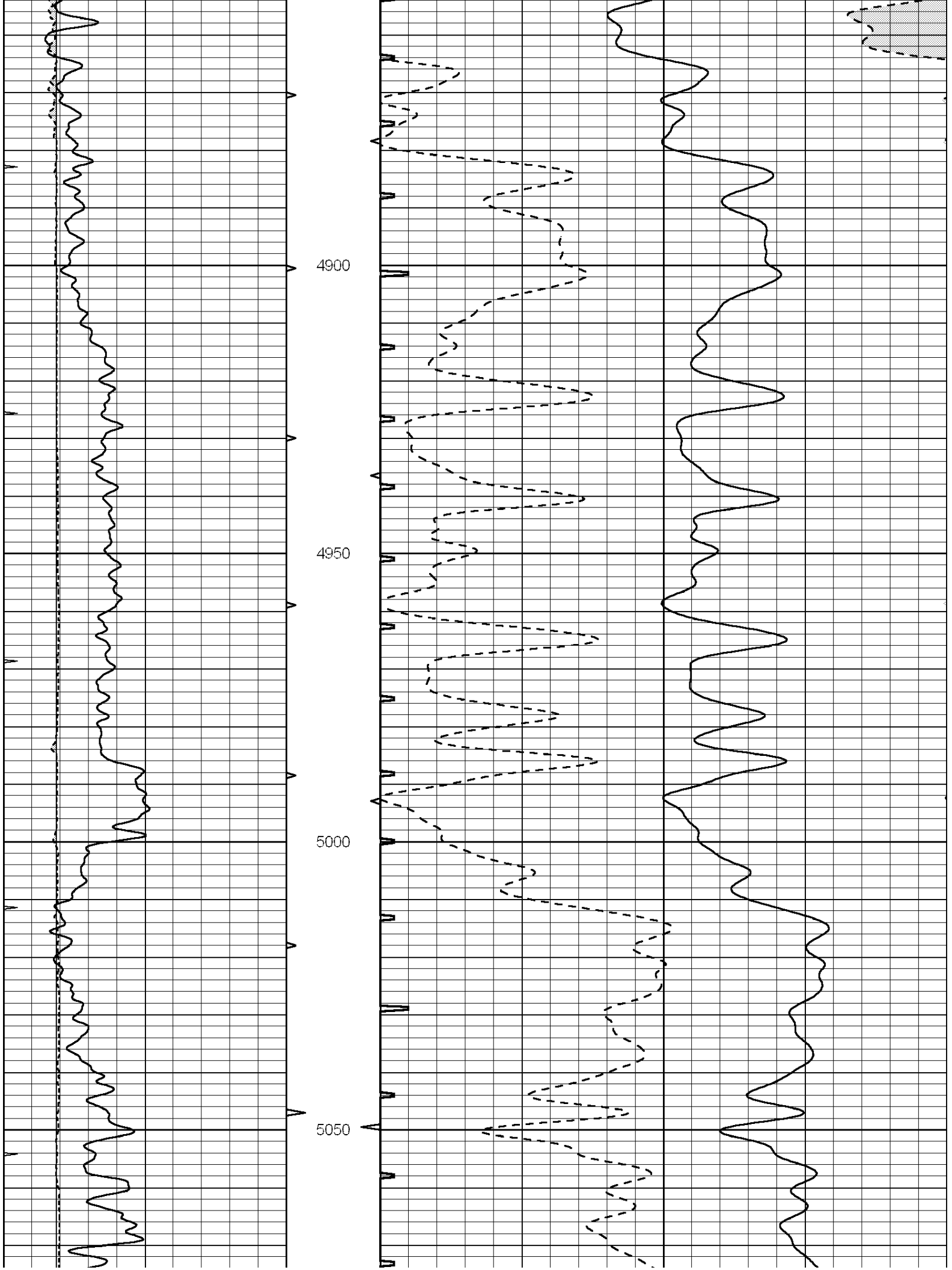


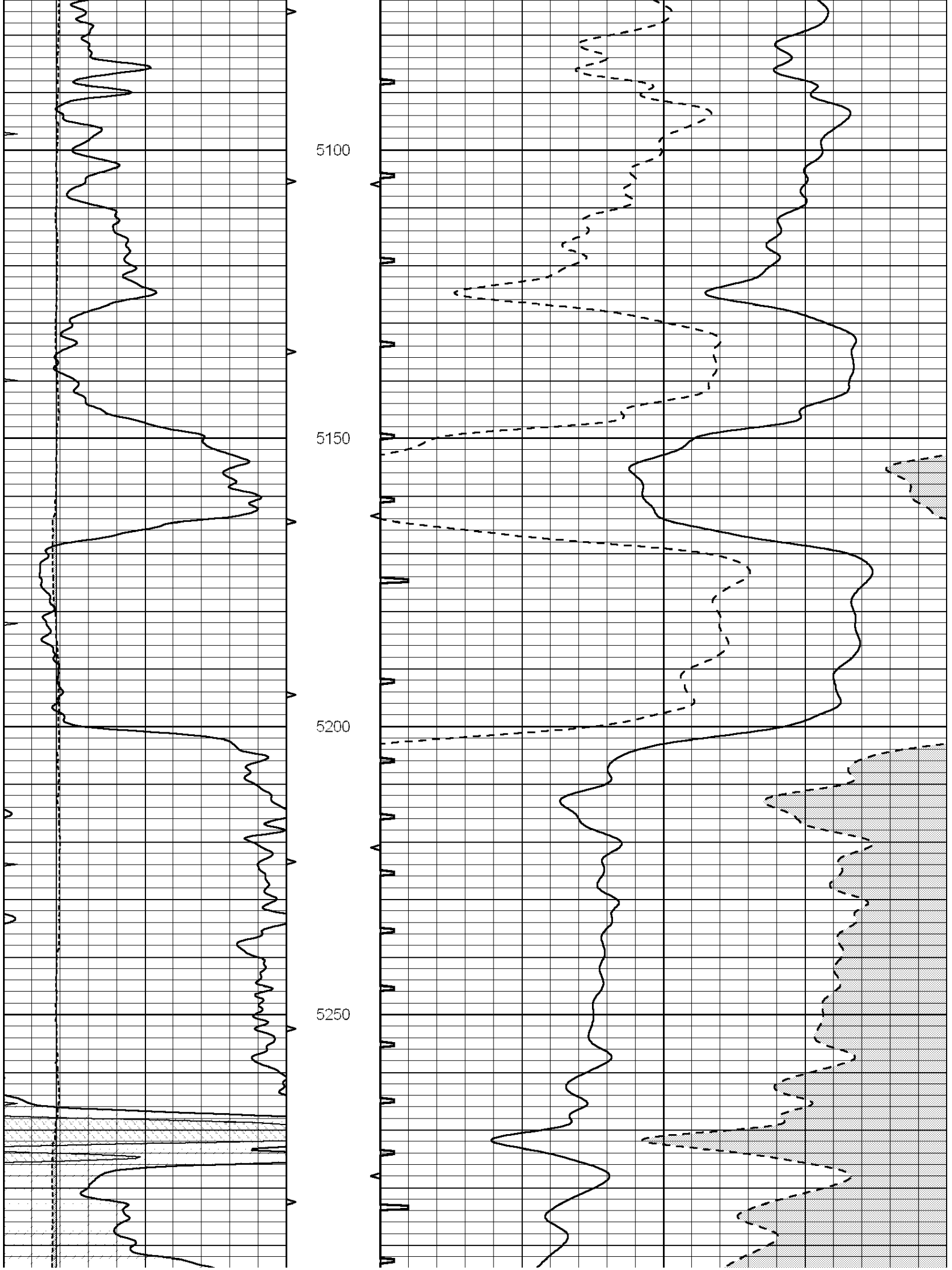

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4150

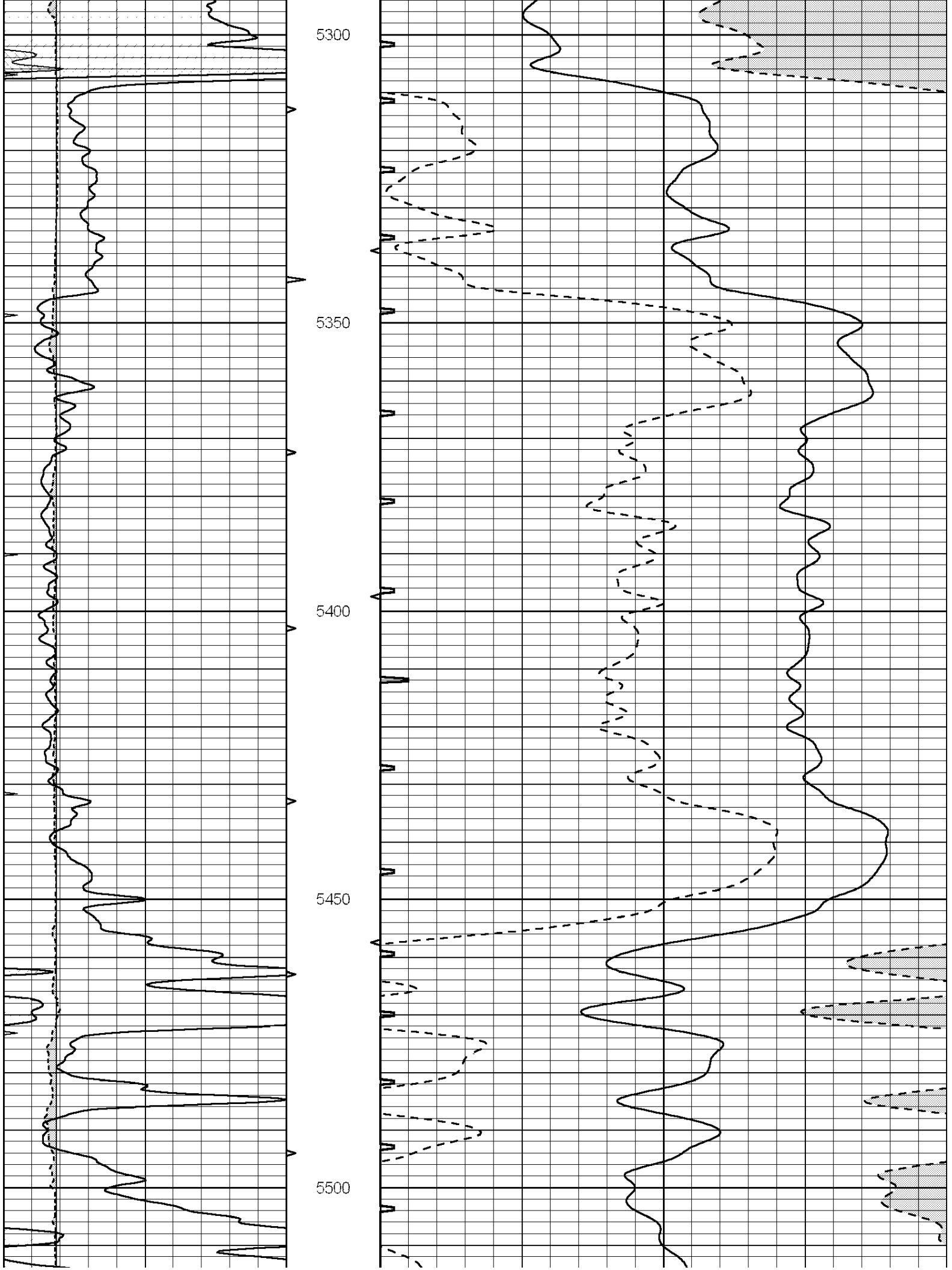

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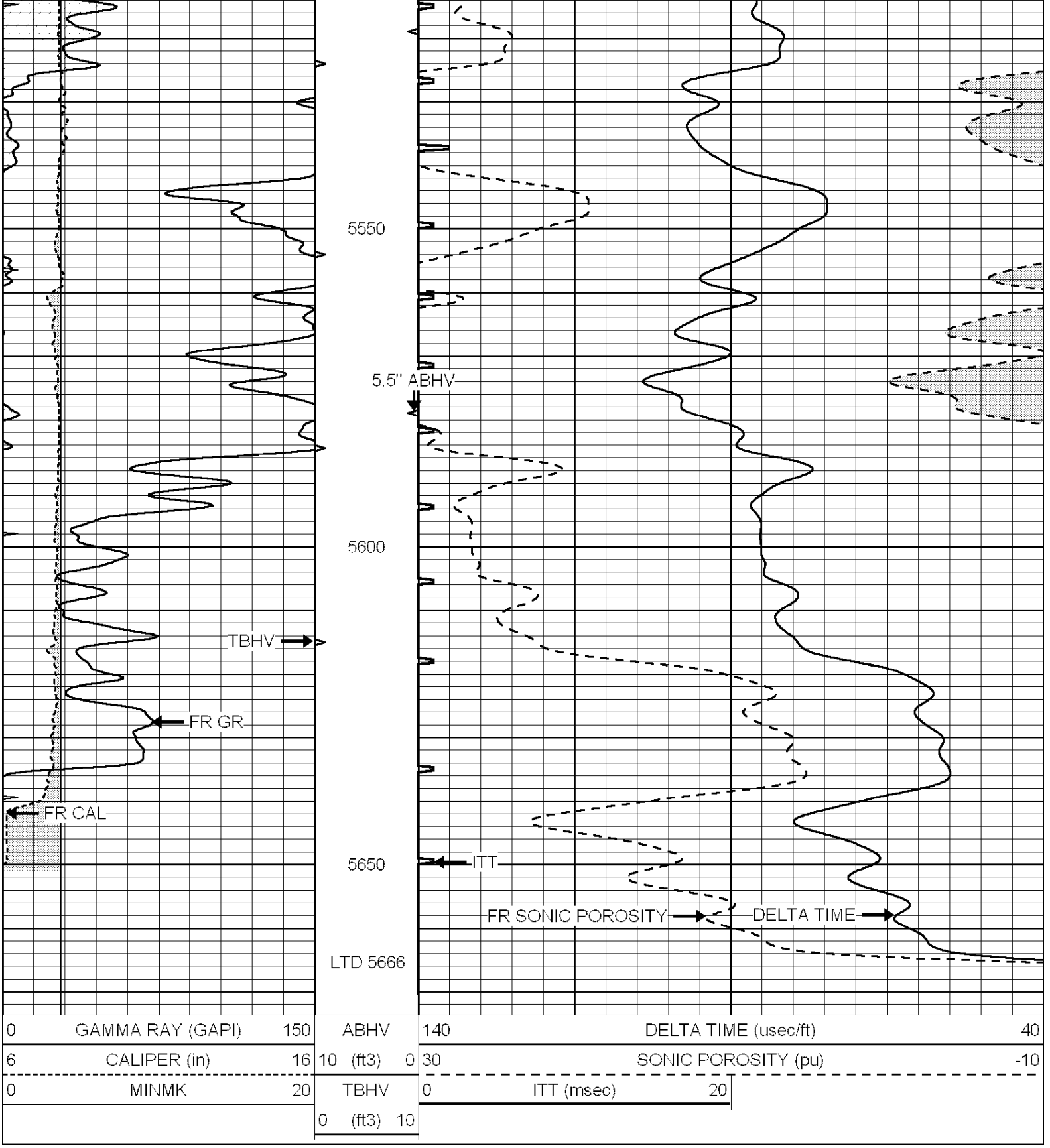

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4950
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5050


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5300
5350
5400
5450
5500



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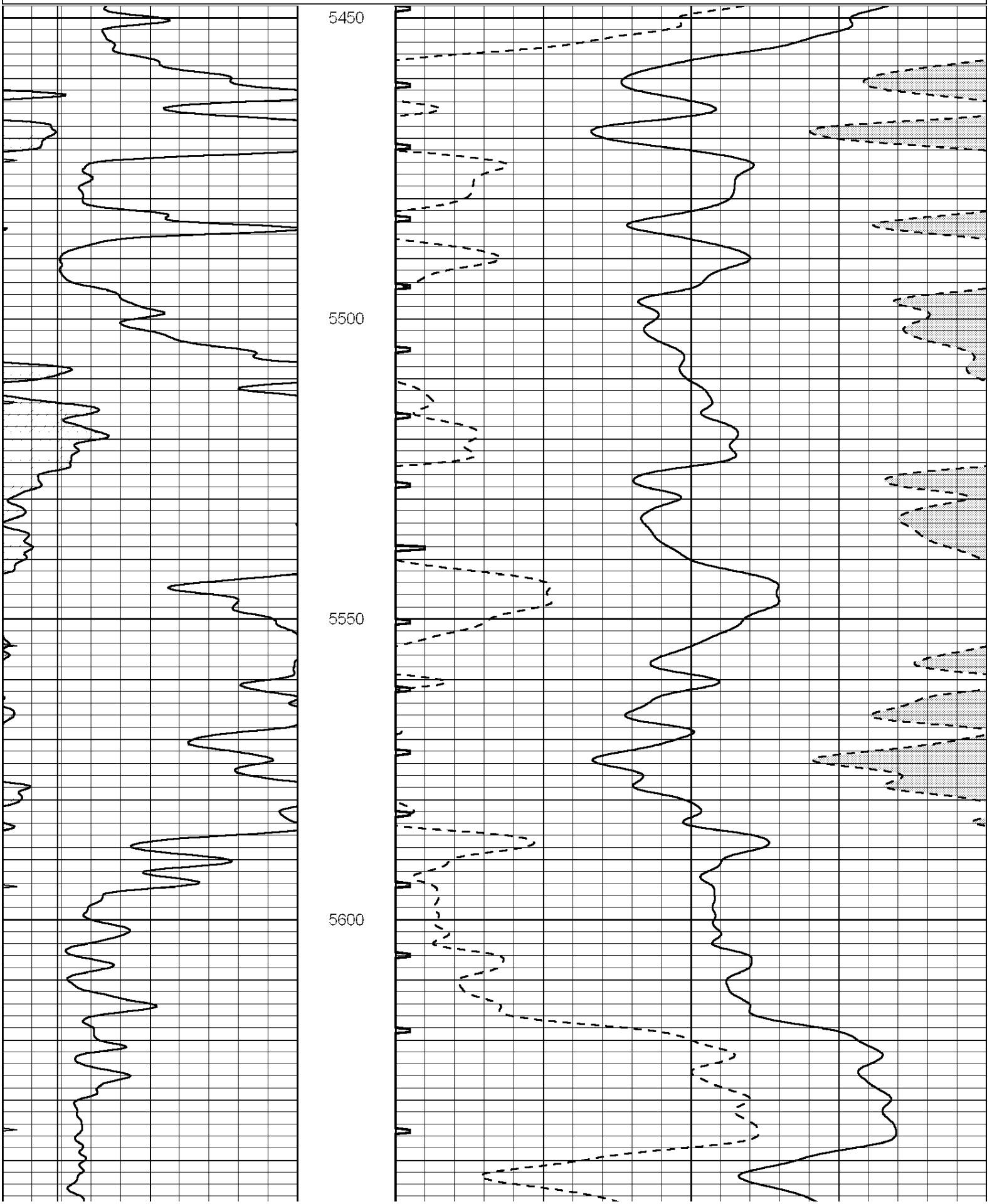
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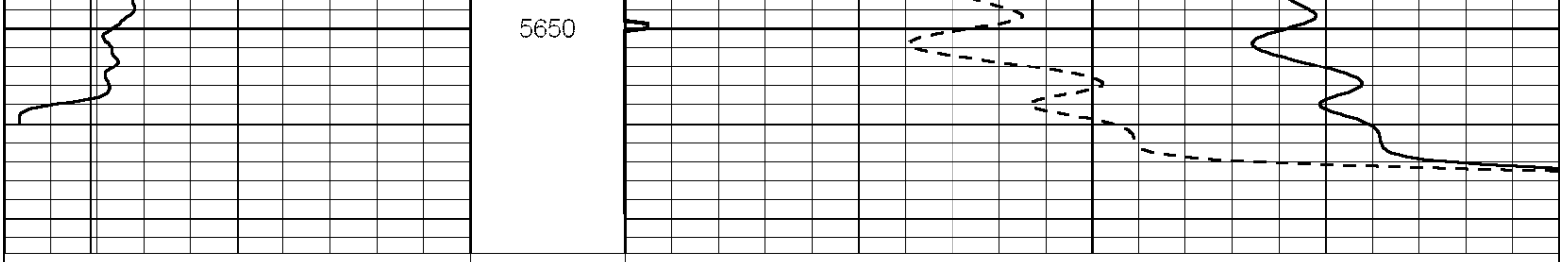
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Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
0	MINMK	20

140	DELTA TIME (usec/ft)	40
30	SONIC POROSITY (pu)	-10
0	ITT (msec)	20





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0	MINMK	20

140	DELTA TIME (usec/ft)	40
30	SONIC POROSITY (pu)	-10
0	ITT (msec)	20